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Attorney Docket No. 8194-502/P12610-US1-BMOA

COMMUNICATIONS METHODS, APPARATUS, COMPUTER PROGRAM PRODUCTS AND DATA STRUCTURES USING SEGMENT SEQUENCE NUMBERS

ABSTRACT OF THE DISCLOSURE

An entity of a communications system transmits a segment conforming to a segment format comprising a data portion and a header portion. The header portion includes a field for a sequence number associated with data in the data portion, e.g., a sequence number of byte of data in the data portion. The transmitted segment also includes a segment transmission sequence number. A receiving entity receives the segment and transmits an acknowledgment reflecting the segment transmission sequence number. Responsive to receipt of such an acknowledgment, roundtrip time may be determined. Retransmission timing, e.g., a retransmission timeout (RTO) value, may be adjusted responsive to the determined round trip time.